

BEST AVAILABLE COPY

GGT ACT ATC GTA ACA ATG GCC GAT TGC TGA CGC TGT TAT TTG C (SEQ ID NO:16)

#6616:

P CTG TGA CTG GTG AGT ACT CAA CCA AGT C (SEQ ID NO:17)

#8573:

CTA CTT CCC AAT CCC AAG CTT TAC CTC GGA ATT TG (SEQ ID NO:18)

#8569:

CAA ATT CCG AGG TAA AGC TTG GGA TTG GGA AGT AG (SEQ ID NO:19)

#8570:

TTG AAC AAC CGT TCC ATT AAG AAG (SEQ ID NO:20)

Please replace the paragraph traversing page 60, lines 5-23, as follows:

For the construction of the pairwise deletion variant G182* + G184*, the following mutagenesis primer was used:

P CTC TGT ATC GAC TTC CCA GTC CCA AGC TTT TGT CCT GAA TTT ATA TAT TTT GTT TTG AAG (SEQ ID NO:21)

For the construction of the pairwise deletion variant R181* + T183*, the following mutagenesis primer was used:

P CTC TGT ATC GAC TTC CCA GTC CCA AGC TTT GCC TCC GAA TTT ATA TAT TTT GTT TTG AAG (SEQ ID NO:22)

For the construction of the substitution variant Y243F, the following mutagenesis primer was used:

P ATG TGT AAG CCA ATC GCG AGT AAA GCT AAA TTT TAT ATG TTT CAC TGC ATC (SEQ ID NO:23)

For the construction of the substitution variant K269R, the following mutagenesis primer was used:

P GC ACC AAG GTC ATT TCG CCA GAA TTC AGC CAC TG (SEQ ID NO:24)

For the construction of the pairwise substitution variant L351C + M430C, the following mutagenesis primers were used simultaneously:

1) P TGT CAG AAC CAA CGC GTA TGC ACA TGG TTT AAA CCA TTG (SEQ ID NO:25)

2) P ACC ACC TGG ACC ATC GCT GCA GAT GGT GGC AAG GCC TGA ATT (SEQ ID NO:26)

Please replace the paragraph traversing page 61, lines 16-17, as follows:

P GGC AAA AGT TTG ACG TGC CTC GAG AAG AGG GTC TAT (SEQ ID NO:27)

P TTG TCC CGC TTT ATT CTG GCC AAC ATA CAT CCA TTT (SEQ ID NO:28)

Please replace the paragraph traversing page 62, lines 9-14, as follows:

E4
For the construction of the pairwise deletion variants R181* + D183* and R181* + G182*, it was chosen to alter the flanking amino acids in the variant D183* + G184* instead of deleting the specified amino acids in the wild type gene for SEQ ID No. 2. The following mutagenesis primer was used for the mutagenesis with pTVB114 as template:
PCC CAA TCC CAA GCT TTA CCA (T/C)CG AAC TTG TAG ATA CG (SEQ ID NO:29)

Please replace the paragraph traversing page 62, lines 20-23, as follows:

E5
For the construction of G182* + G184* and R181* + G184*, the following mutagenesis primer was used with pTVB114 as template:

PCC CAA TCC CAA GCT TTA TCT C(C/G)G AAC TTG TAG ATA CG (SEQ ID NO:30)

Please replace the paragraph traversing page 62, lines 29-31, as follows:

E6
For the construction of D183* + G184* + M202L the following mutagenesis primer was used:
PGA TCC ATA TCG ACG TCT GCA TAC AGT AAA TAA TC (SEQ ID NO:31)

Please replace the paragraph traversing page 63, lines 29-31, as follows:

not entered
E7
NE
For the construction of D183* + G184* + M202I the following mutagenesis primer was used:
PGA TCC ATA TCG ACG TCT GCA TAA ATT AAA TAA TC (SEQ ID NO:32)

Please delete pages 71-80 and insert the attached Sequence Listing (pages 71-85) and renumber the subsequent pages in the specification accordingly.